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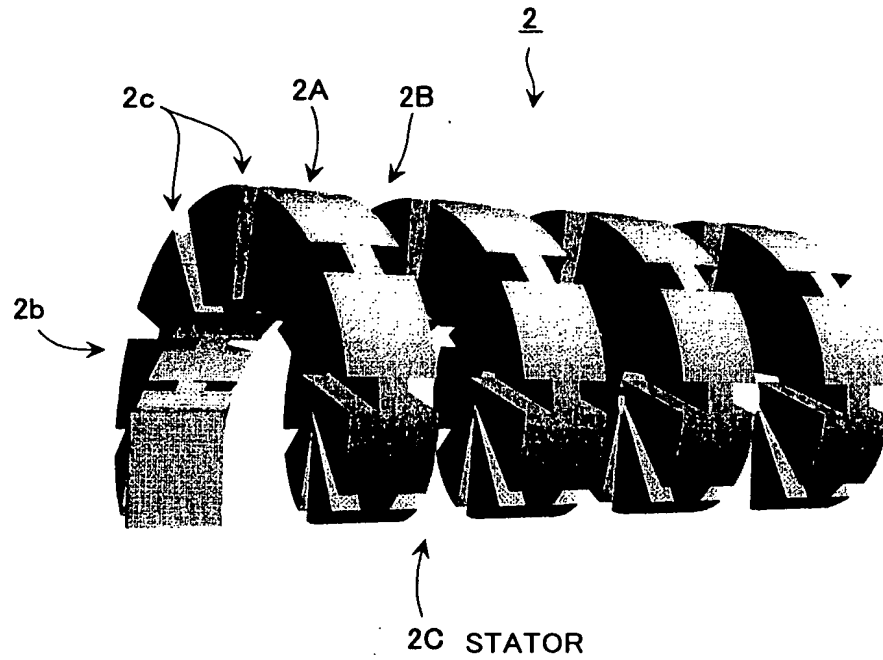
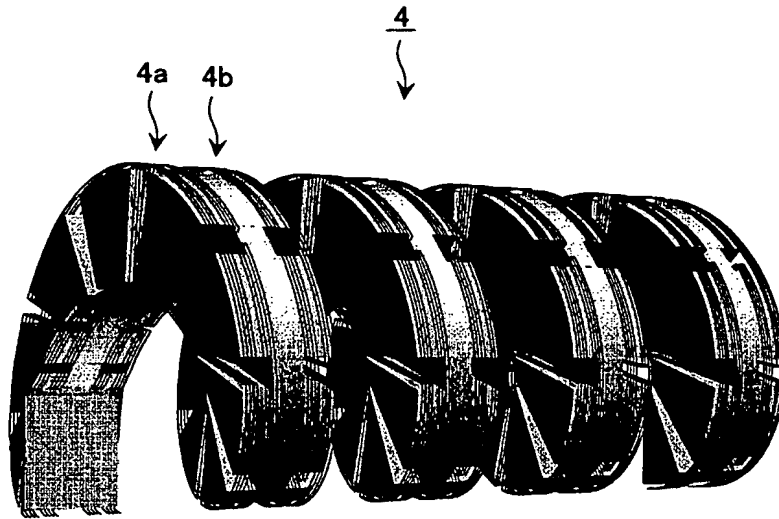


Fig. 1

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STATOR ON WHICH WINDING IS WOUND

Fig. 2

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Fig. 3A

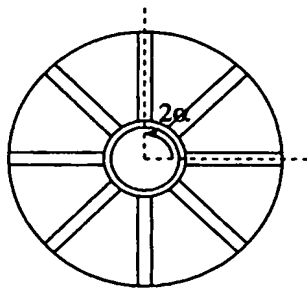


Fig. 3B

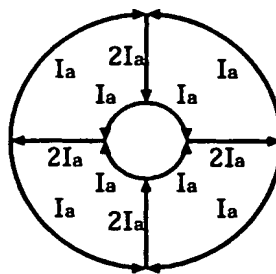
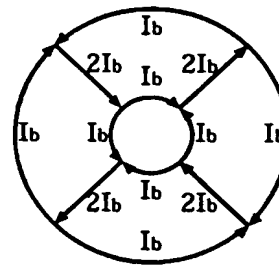


Fig. 3C



AXIAL PROJECTION OF STATOR AND WINDING

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Fig. 4A

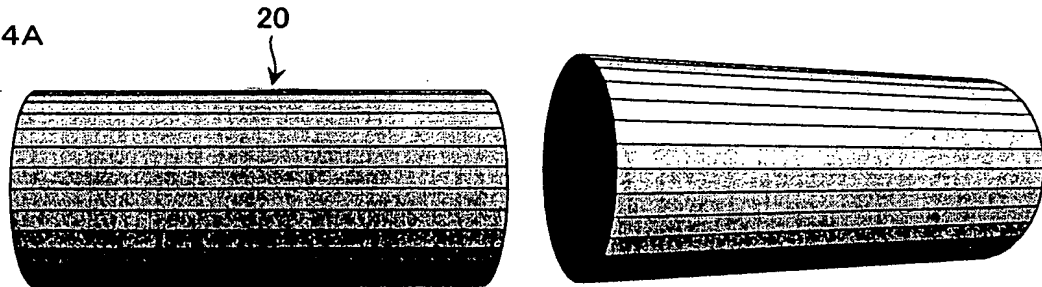


Fig. 4B

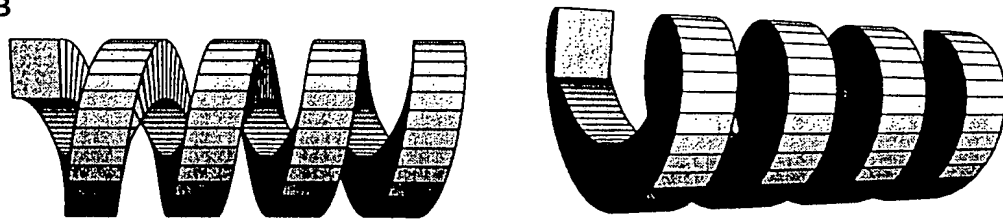
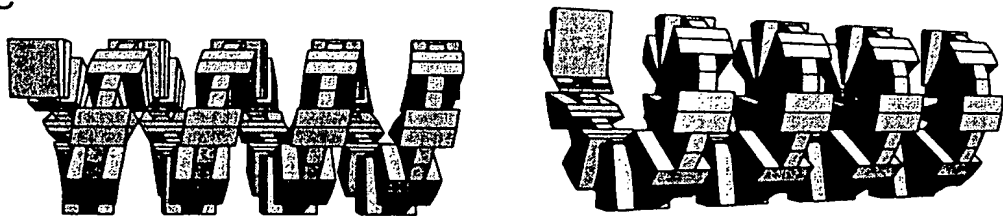


Fig. 4C



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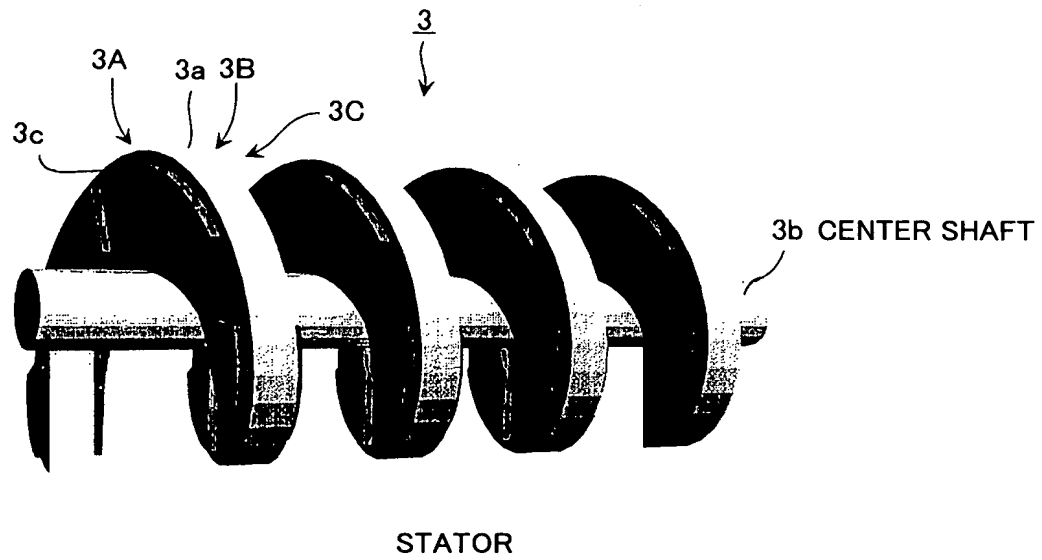
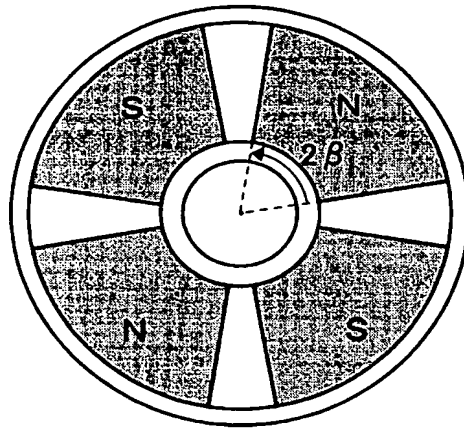


Fig. 5

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AXIAL PROJECTION OF ROTATOR

Fig. 6

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Fig. 7A

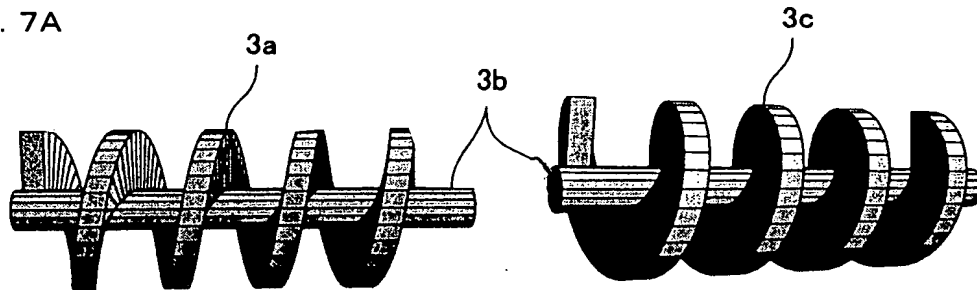
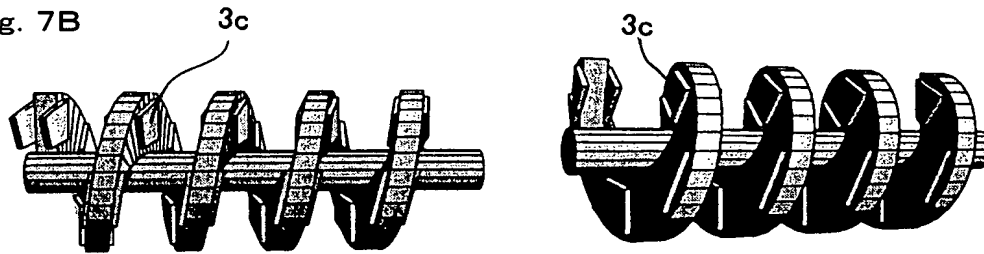
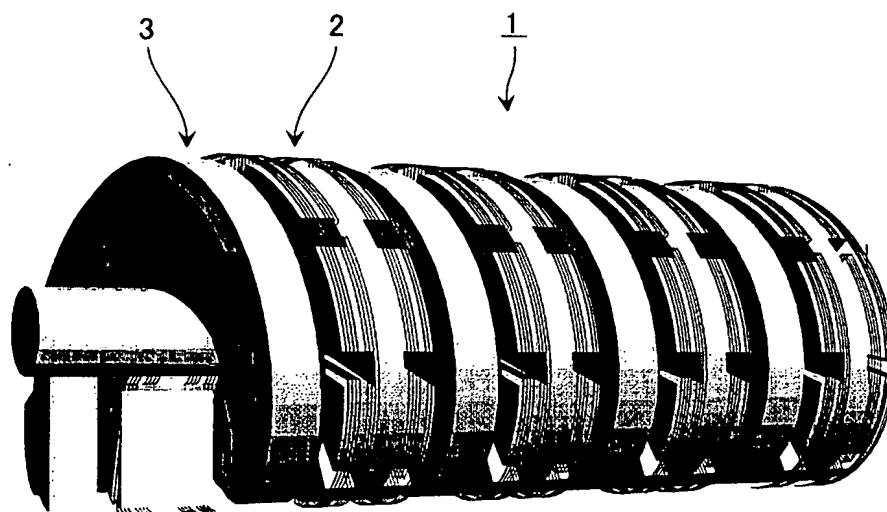


Fig. 7B



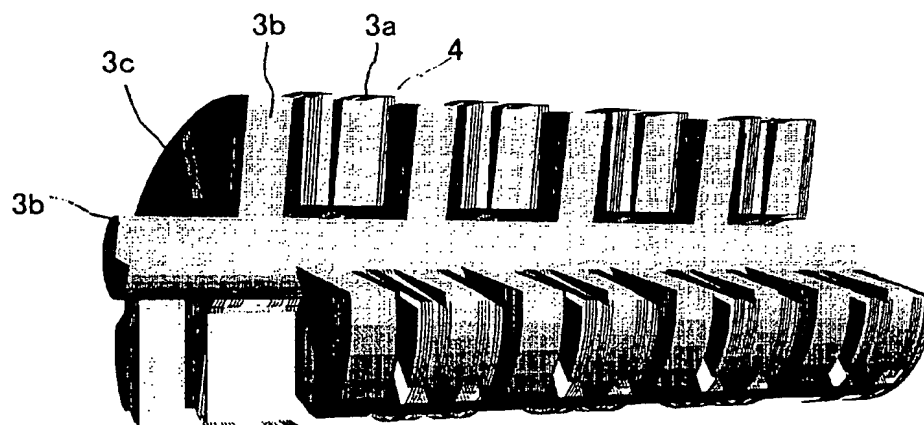
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STATOR AND ROTATOR OF SPIRAL LINEAR MOTOR

Fig. 8

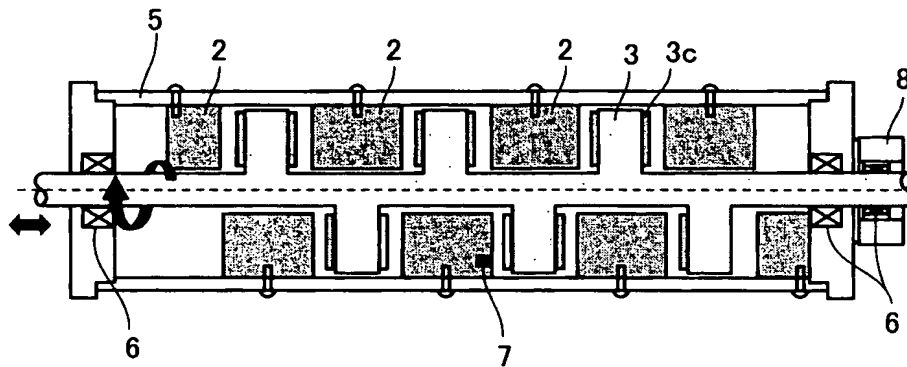
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CUT MODEL OF SPIRAL MOTOR

Fig. 9

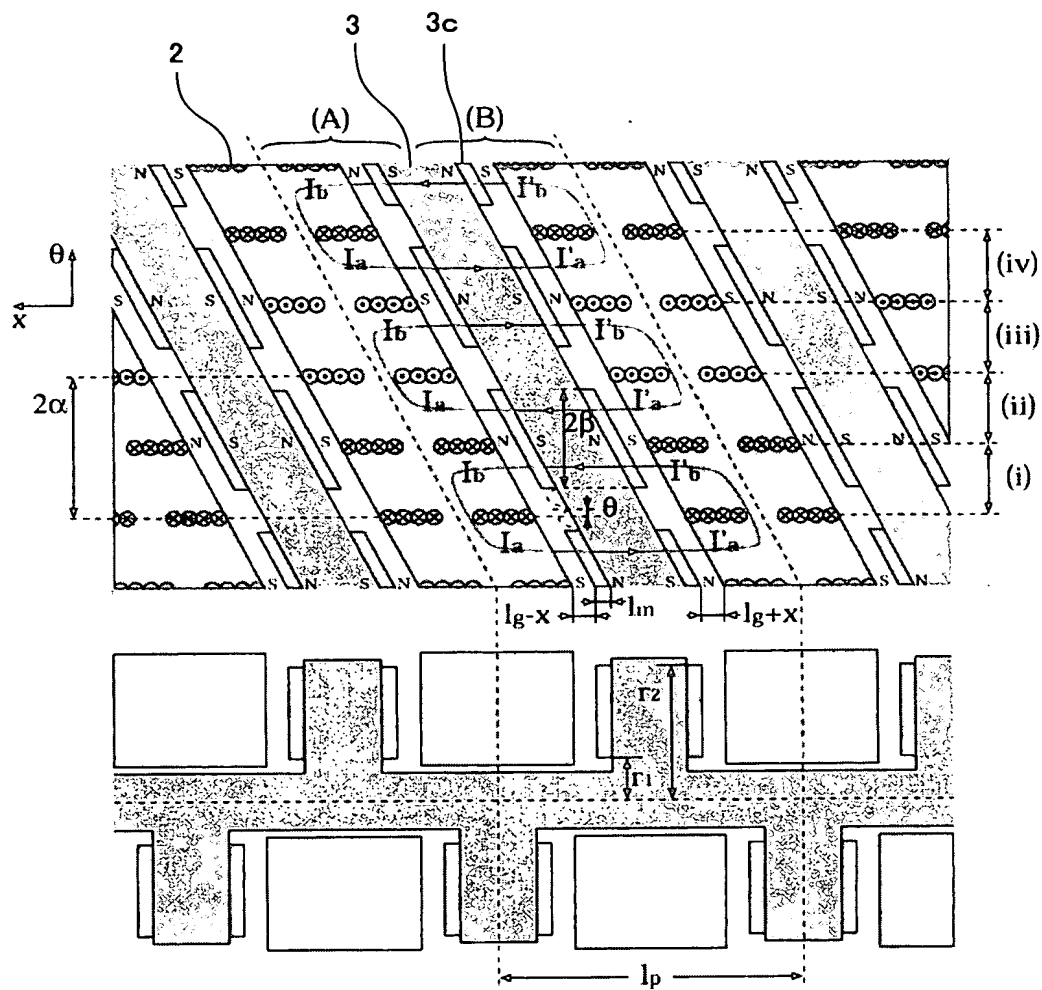
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CROSS-SECTIONAL VIEW OF SPIRAL MOTOR

Fig. 10

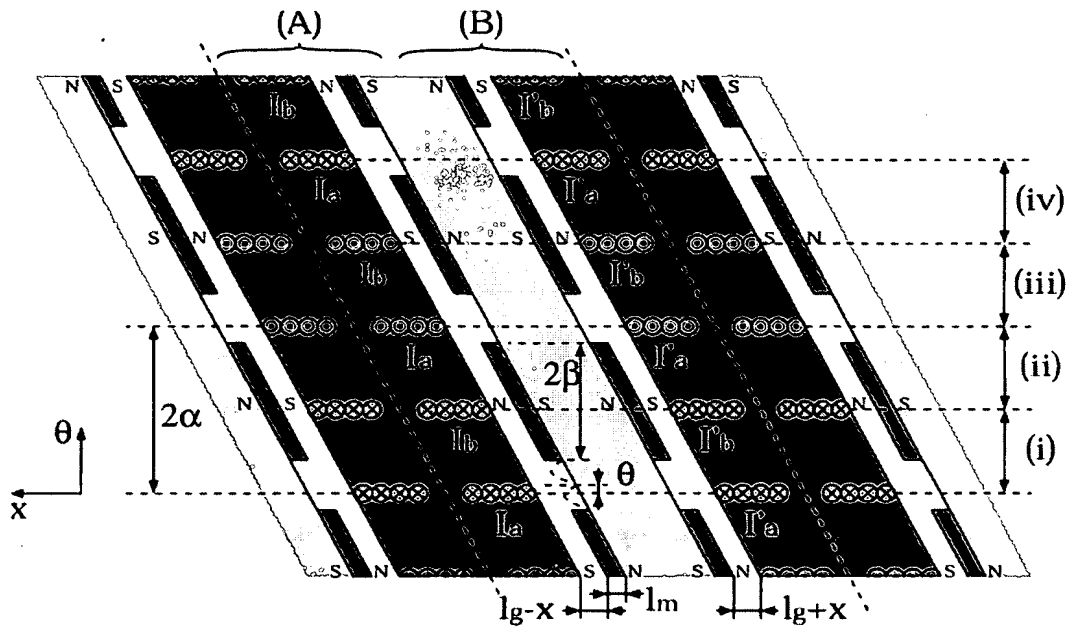
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POLE COORDINATE INTERIOR ELEVATION
 SUBSTITUTE SHEET (REGULATION 26)

Fig. 11

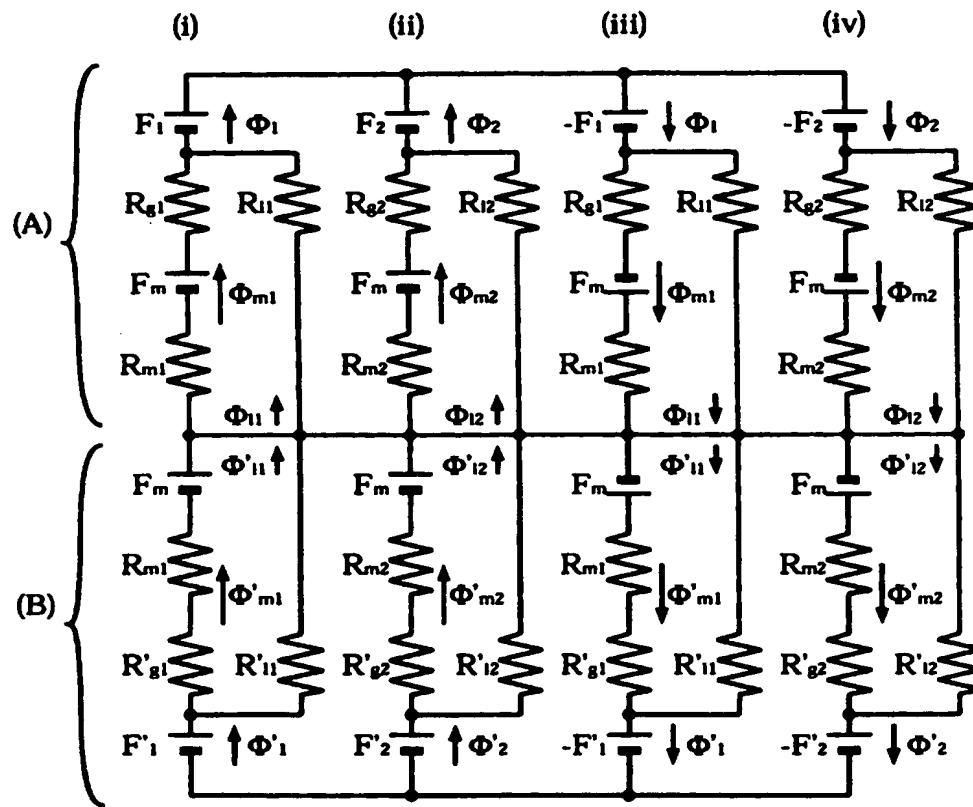
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MODE 1 $(-(\alpha - \beta) \leq \theta \leq \alpha - \beta)$ CASE
 SUBSTITUTE SHEET (REGULATION 26)

Fig. 12

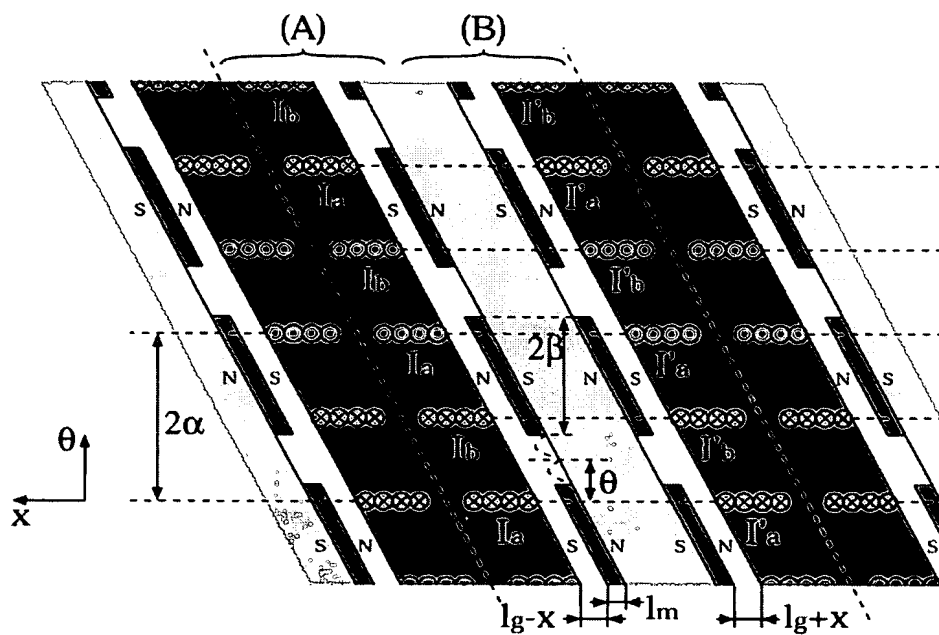
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EQUIVALENCE MAGNETIC CIRCUIT OF MODE 1

Fig. 13

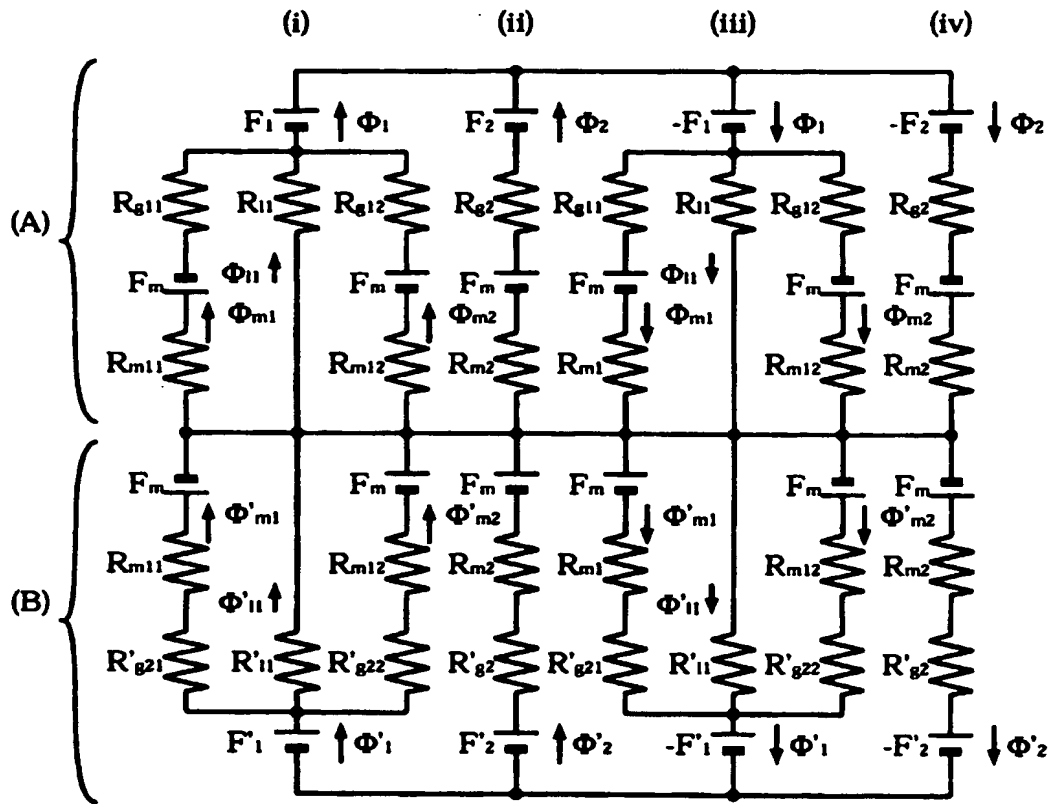
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MODE 2 ($\alpha - \beta \leq \theta \leq \beta$) CASE
 SUBSTITUTE SHEET (REGULATION 26)

Fig. 14

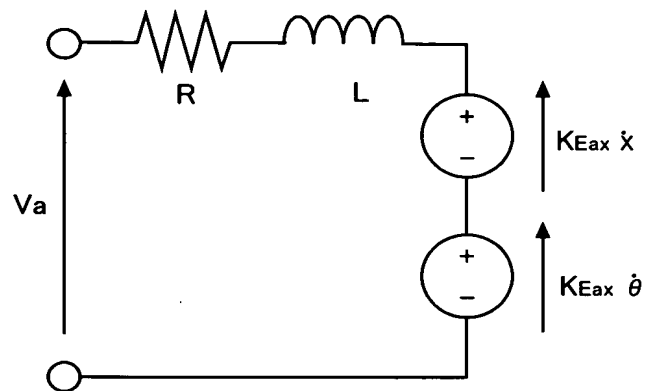
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EQUIVALENCE MAGNETIC CIRCUIT OF MODE 2

Fig. 15

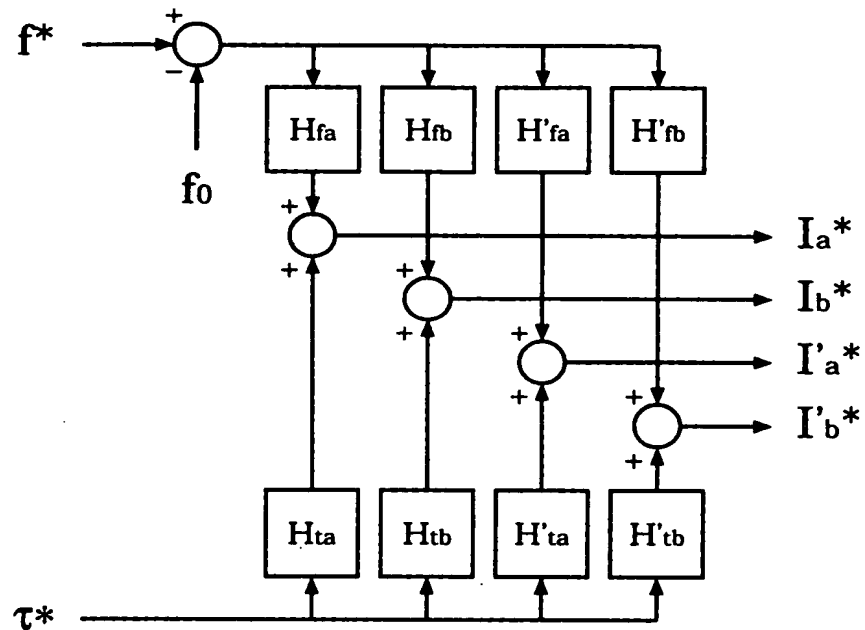
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ARMATURE CIRCUIT

Fig. 16

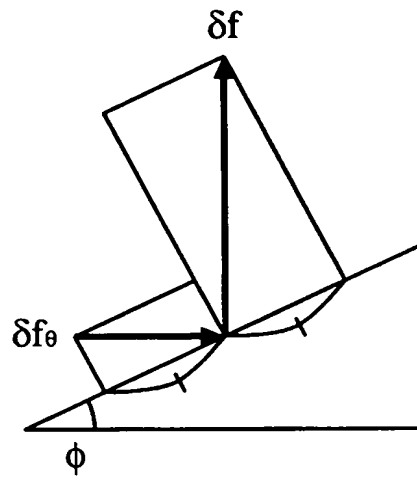
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DRIVE FORCE/TORQUE TO CURRENT CONVERTER

Fig. 17

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SCREW PRINCIPLE

Fig. 18

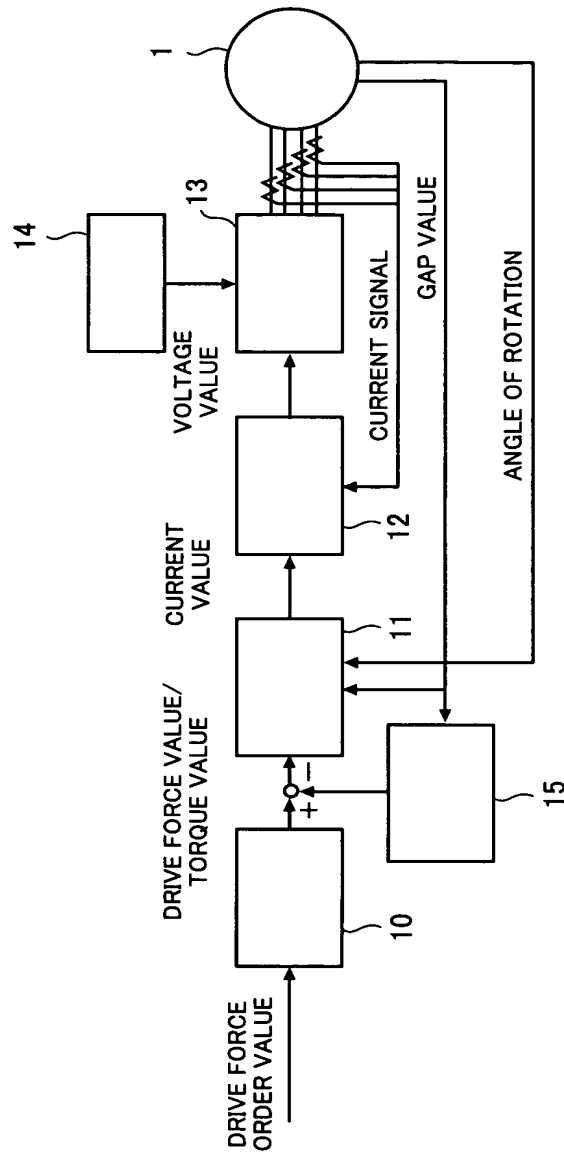
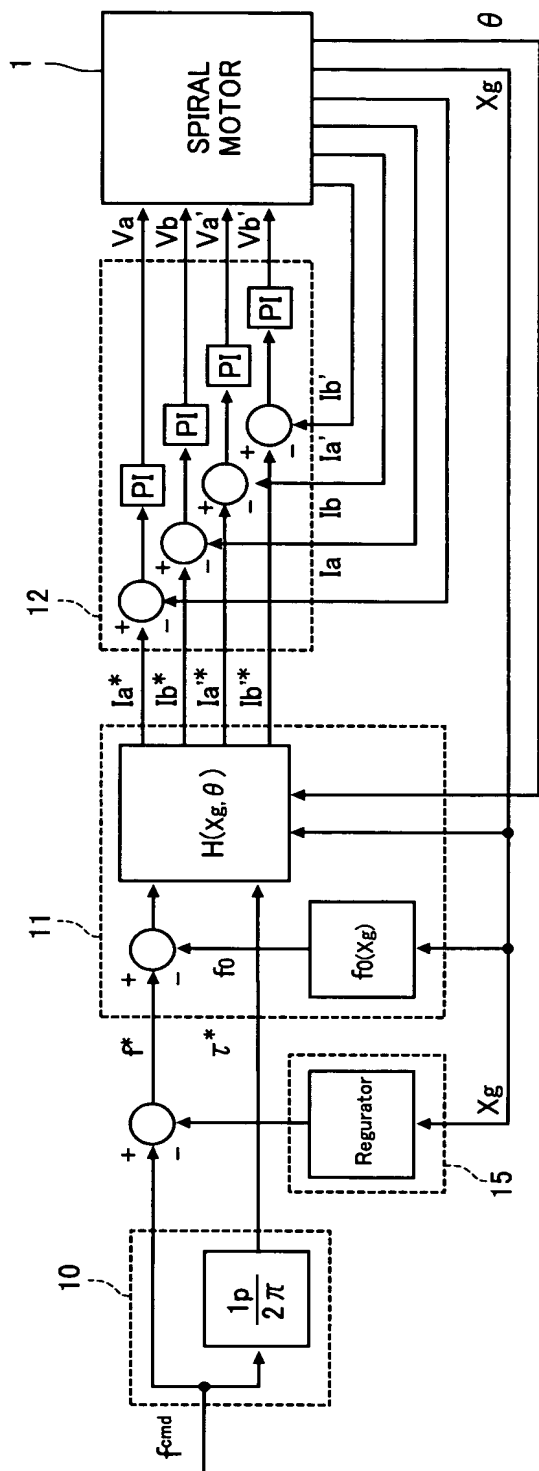


Fig. 19

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DETAIL OF DRIVE FORCE CONTROL SYSTEM

Fig. 20

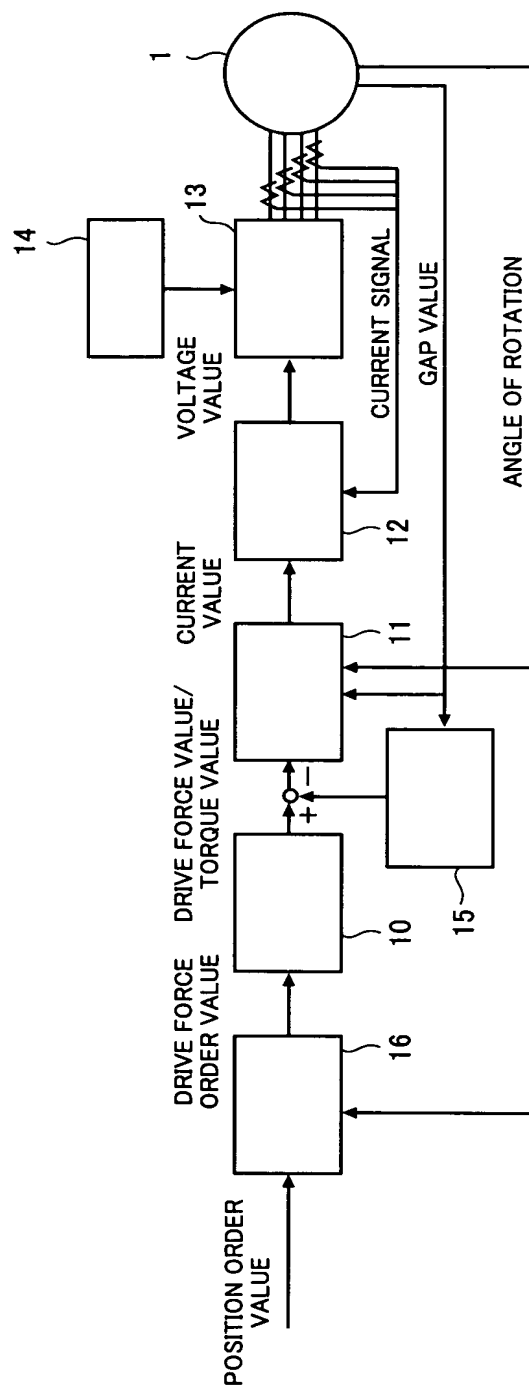
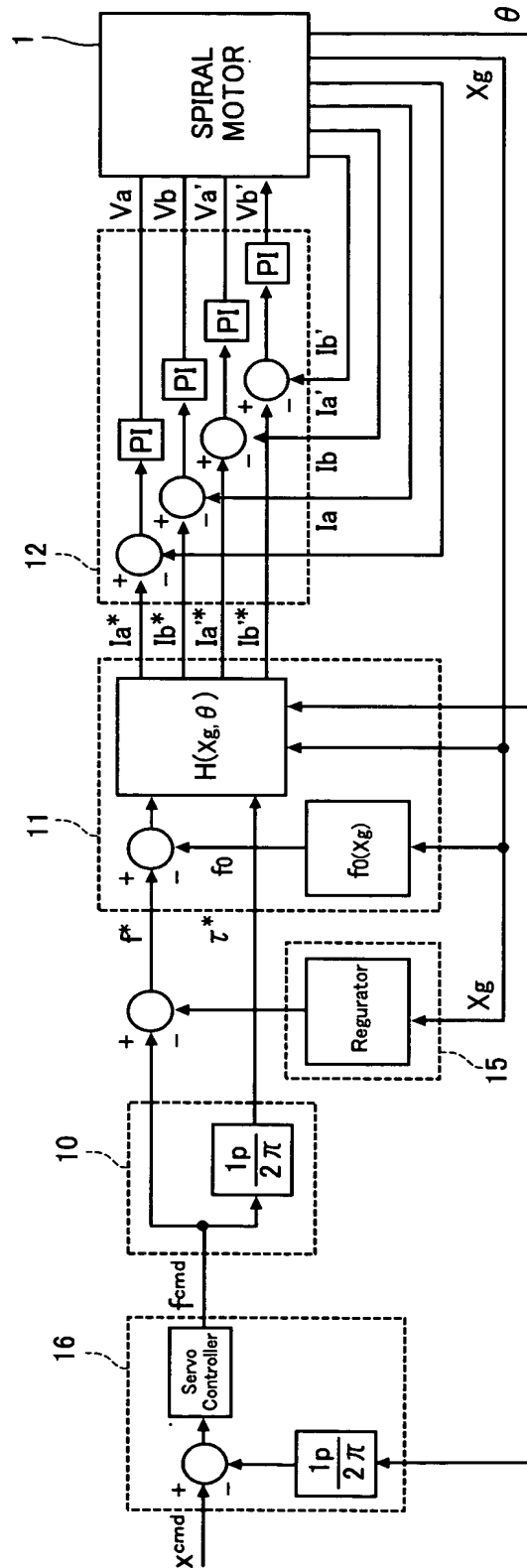


Fig. 21

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DETAIL OF POSITION CONTROL SYSTEM

Fig. 22

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